

ABSTRACT

A method and apparatus for determining and adjusting binder
laylength during the process of manufacturing a selected fiber optic cable
design. Specifically, a binder, having a distinguishing and physically
detectable feature, is wrapped around fiber optic bundles or a buffer tube. A
detection system detects the unique feature associated with the binder and thus
creates a calculates a representative distance value. The distance value is
calculated in relation the periodic spacing between two detected points on the
physically detectable binder and is continuously monitored by a closed
feedback loop. A computer receives status data from the closed feedback loop
and compares the received data to a stored laylength parameter. In light of the
comparison, an algorithm adjusts the binder head speed accordingly. This
process repeats until the desired stored laylength is detected by the detection
system.